

Site Information: Refineries



Toa Oil Co., Ltd Keihin Refinery

www.toaoil.co.jp/

Location: 3-1, Mizue-cho, Kawasaki-ku, Kawasaki, Kanagawa

Established: February 1924

Main business: Production of petroleum products

Classification	Index (measure)	Unit	Restriction details		Applicable laws and regulations	FY2004
			Total amount/concentration	Regulation level		
Atmospheric air	SOx	Tonne/year	Immutable weight control	Mizue Ohgimachi 876 450.5	Kawasaki City Ordinance	Mizue Ohgimachi 171 49
	NOx	Tonne/year	Immutable weight control	Mizue Ohgimachi 710.2 560.5	Kawasaki City Ordinance	Mizue Ohgimachi 357 432
	PM	Tonne/year	Emission concentration regulation	0.05 – 0.15 kg/day	Kawasaki City Ordinance	Mizue Ohgimachi 14.5 4.1
Water Quality	COD	kg/day	Immutable weight control	Mizue Ohgimachi 275.8 115.13	Water Pollution Control Law	Mizue Ohgimachi 108 24
	SS	mg/l	Emission concentration regulation	90	Water Pollution Control Law	Mizue Ohgimachi 6.1 6.4
	N ₂	mg/l	Emission concentration regulation	40	Water Pollution Control Law	Mizue Ohgimachi 1.6 0.9
	P	mg/l	Emission concentration regulation	4	Water Pollution Control Law	Mizue Ohgimachi 0.1 0.1
	Oil content	mg/l	Emission concentration regulation	5	Water Pollution Control Law	Mizue Ohgimachi 0.6 1.4
	Phenol	mg/l	Emission concentration regulation	0.5	Kawasaki City Ordinance	Mizue Ohgimachi 0.02 0.0

PRTR	Substance	Emissions/Distance (Unit: tonne/year)			
		Atmospheric emissions	Water emissions	Waste material transport distance	Total
	Ethylbenzene	0.4	0.0	0.0	0.4
	Xylene	2.1	0.0	0.0	2.1
	1, 3, 5 - Trimethyl Benzene	0.1	0.0	0.0	0.1
	Toluene	4.2	0.0	0.0	4.2
	Benzene	2.0	0.0	0.0	2.0

Note: Not included when either emissions (to atmosphere and/or bodies of water) or transfers of waste are less than 0.05 tonnes per year.



Showa Yokkaichi Sekiyu Co., Ltd

Yokkaichi Refinery

www.showa-yokkaichi.co.jp

Location: 1 Shiohama-cho, Yokkaichi, Mie

Established: November 1957

Main business: Production of petroleum products

Classification	Index (measure)	Unit	Restriction details		Applicable laws and regulations	FY2004
			Total amount/concentration	Regulation level		
Atmospheric air	SOx	Nm ³ /h	Immutable weight control	150	Yokkaichi City Agreement on Pollution Prevention	18.2
	NOx	Nm ³ /h	Immutable weight control	129	Yokkaichi City Agreement on Pollution Prevention	60.0
	PM	kg/h	Immutable weight control	26	Yokkaichi City Agreement on Pollution Prevention	10.4
Water Quality	COD	kg/day	Immutable weight control	600	Yokkaichi City Agreement on Pollution Prevention	117.0
	SS	mg/l	Emission concentration regulation	200 (150)	Water Pollution Control Law	3.8 – 6.0
	N ₂	mg/l	Emission concentration regulation	120 (60)	Water Pollution Control Law	1.4 – 1.9
	P	mg/l	Emission concentration regulation	1	Water Pollution Control Law	0.1
	Oil content	mg/l	Emission concentration regulation	5 (1)	Water Pollution Control Law	0.2
	Phenol	mg/l	Emission concentration regulation	5 (1)	Water Pollution Control Law	0.5 >

Note: Figure in the parenthesis is an average per day

PRTR	Substance	Emissions/Distance (Unit: tonne/year)			
		Atmospheric emissions	Water emissions	Waste material transport distance	Total
	Aqueous Zn compound	0.0	1.4	0.0	1.4
	Ethylbenzene	0.5	0.0	0.0	0.5
	Xylene	2.1	0.0	0.0	2.1
	Toluene	7.8	0.0	0.0	7.8
	Nickel compound	0.0	0.0	1.7	1.7
	Benzene	2.7	0.0	0.0	2.7



Seibu Oil Co., Ltd
Yamaguchi Refinery

www.seibuoil.co.jp/

Location: 5 Nishioki Sanyo Onoda, Yamaguchi

Established: June 1962

Main business: Production of petroleum products

Classification	Index (measure)	Unit	Restriction details		Applicable laws and regulations	FY2004
			Total amount/concentration	Regulation level		
Atmospheric air	SOx	Nm ³ /h	Immutable weight control	151.09	Sanyo Onoda City Environmental Partnership Agreement	106
	NOx	Nm ³ /h	Immutable weight control	149	Sanyo Onoda City Environmental Partnership Agreement	50
	PM	g/Nm ³	Emission concentration regulation	0.06 – 0.12	Sanyo Onoda City Environmental Partnership Agreement	0.01 – 0.028
		Tonne/year	Immutable weight control	—	—	97
Water Quality	COD	kg/day	Immutable weight control	301.1	Water Pollution Control Law	100 – 150
	SS	mg/l	Emission concentration regulation	30 (20)	Sanyo Onoda City Environmental Partnership Agreement	6.8
	N ₂	mg/l	Emission concentration regulation	30 (20)	Sanyo Onoda City Environmental Partnership Agreement	7.3
	P	mg/l	Emission concentration regulation	0.5 (0.1)	Sanyo Onoda City Environmental Partnership Agreement	0.06
	Oil content	mg/l	Emission concentration regulation	1 (0.3)	Sanyo Onoda City Environmental Partnership Agreement	0.2
	Phenol	mg/l	Emission concentration regulation	0.8 (0.3)	Sanyo Onoda City Environmental Partnership Agreement	0.13

Note: Figure in the parenthesis is an average per day

PRTR	Substance	Emissions/Distance (Unit: tonne/year)			
		Atmospheric emissions	Water emissions	Waste material transport distance	Total
	Ethylbenzene	0.8	0.0	0.0	0.8
	Xylene	3.2	0.0	0.0	3.2
	Toluene	9.2	0.0	0.0	9.2
	Benzene	2.1	0.5	0.0	2.6

Note: Not included when either emissions (to atmosphere and/or bodies of water) or transfers of waste are less than 0.05 tonnes per year.

Site Information: Blending Plants and Terminals



Yokohama Blending Plants

Location: 2-4 Anzen-cho, Tsurumi-ku, Yokohama, Kanagawa

Established: 1924

Main business: Storage, receipt and shipment of fuel
Production and shipment of lubricants

Classification	Index (measure)	Unit	Restriction details		Applicable laws and regulations	FY2004
			Total amount/concentration	Regulation level		
Atmospheric air	SOx	Nm ³ /h	Immutable weight control	—	Kanagawa Prefectural Ordinance	0.02
	NOx	PPM	Emission concentration regulation	80	Kanagawa Prefectural Ordinance	40
	PM	g/Nm ³	Emission concentration regulation	—	Air Pollution Control Law	0.007
Water Quality	Hydrogen-ion concentration	PH	Emission concentration regulation	5.8 – 8.6	Water Pollution Control Law	7.2
	COD	mg/l	Emission concentration regulation	60	Water Pollution Control Law	6



Kobe Blending Plants

Location: 6-1-17 Namimatsu-cho, Nagata-ku, Kobe, Hyogo

Established: 1893 as a tank storage facility

Main business: Storage, receive and shipment of fuel
Production and shipment of lubricants

Classification	Index (measure)	Unit	Restriction details		Applicable laws and regulations	FY2004
			Total amount/concentration	Regulation level		
Atmospheric air	SOx	Nm ³ /h	Immutable weight control	6.8	Air Pollution Control Law	0.22
	NOx	PPM	Emission concentration regulation	180	Air Pollution Control Law	81
	PM	g/Nm ³	Emission concentration regulation	0.3	Air Pollution Control Law	< 0.005
Water Quality	COD	mg/l	Emission concentration regulation	160	Kobe City Ordinance	3 – 6.6

PRTR	Substance	Emissions/Distance (Unit: tonne/year)			
		Atmospheric emissions	Water emissions	Waste material transport distance	Total
	Ethylbenzene	0.17	0.0	0.0	0.17
	Xylene	0.66	0.0	0.0	0.66
	Toluene	3.5	0.0	0.0	3.5
	Benzene	0.77	0.0	0.0	0.77

Note: Not included when either emissions (to atmosphere and/or bodies of water) or transfers of waste are less than 0.05 tonnes per year.



Niigata Petroleum Import Terminal

Location: 21 Heiwa-cho, Niigata, Niigata

Established: August 1942 as Showa Sekiyu Niigata Refinery

April 1999—Discontinued crude oil refinery, became petroleum product import terminal

Main business: Storage, receipt and shipment of petroleum products

Classification	Index (measure)	Unit	Restriction details		Applicable laws and regulations	FY2004
			Total amount/concentration	Regulation level		
Atmospheric air	SOx	Nm ³ /h	Immutable weight control	9.9	Niigata Prefecture Agreement on Pollution Prevention	2.12 – 3.04
	NOx	Nm ³ /h	Immutable weight control	3.8	Niigata Prefecture Agreement on Pollution Prevention	1.0 – 1.13
	PM	g/Nm ³	Emission concentration regulation	0.1	Niigata Prefecture Agreement on Pollution Prevention	0.001 – 0.025
Water Quality	COD	mg/l	Emission concentration regulation	60	Niigata Prefecture Agreement on Pollution Prevention	5 – 6
	SS	mg/l	Emission concentration regulation	80	Niigata Prefecture Agreement on Pollution Prevention	5 – 7
	Oil content	mg/l	Emission concentration regulation	4.0	Niigata Prefecture Agreement on Pollution Prevention	0.2

PRTR	Substance	Emissions/Distance (Unit: tonne/year)			
		Atmospheric emissions	Water emissions	Waste material transport distance	Total
	Ethylbenzene	0.22	0.0	0.0	0.22
	Xylene	0.89	0.0	0.0	0.89
	Toluene	5.2	0.0	0.0	5.2
	Benzene	1.0	0.0	0.0	1.0

Note: Not included when either emissions (to atmosphere and/or bodies of water) or transfers of waste are less than 0.05 tonnes per year.



Hekinan LPG Terminal

Location: 2-1 Kounan-cho, Hekinan, Aichi

Established: March 1980

Main business: Storage, receipt and shipment of LPG

Classification	Index (measure)	Unit	Restriction details		Applicable laws and regulations	FY2004
			Total amount/concentration	Regulation level		
Water Quality	COD	mg/l	Emission concentration regulation	20	Hekinan City Agreement on Pollution Prevention	2.8
	SS	mg/l	Emission concentration regulation	25	Hekinan City Agreement on Pollution Prevention	6.3
	Oil content	mg/l	Emission concentration regulation	2	Hekinan City Agreement on Pollution Prevention	0.0
	Hydrogen-ion concentration	PH	Emission concentration regulation	5.8 – 8.6	Hekinan City Agreement on Pollution Prevention	8.1